

Battery Maintainer Authorization Request Phoenix Deer Valley Airport

Tenant: _____ Hangar: _____

Aircraft Registration: _____

Aircraft Make & Model: _____

I hereby request authorization to use the following battery maintainer installation on my aircraft and in my hangar referenced above:

Battery Maintainer: _____ BatteryMINDER Model 128CEC1, 128CEC2 or 244CEC1, 244CEC2
_____ Schauer Model JAC0512-DVPA or JAC0524-DVPA

Aircraft Connection: Audio Authority Model BM-AIK1 or equivalent

I hereby certify that the battery maintainer and aircraft connection installation conforms to the **Phoenix Deer Valley Airport Specification Airport Specifications and Procedures for Battery Maintainer Use** current on the date of my signature. I understand and will comply with these requirements, as revised. Failure to comply with these requirements invalidates this authorization.

Tenant/Aircraft Owner: _____ Date: _____

Approved this date: _____

Phoenix Deer Valley Airport Manager/Designee: _____

Battery Maintainer Operating Procedures

Connecting

1. Prior to connection to the aircraft, verify that the Battery Maintainer is **DISCONNECTED FROM AC POWER**
2. **NO AC EXTENSION CORDS ARE PERMITTED**
3. Locate the Battery Maintainer near the AC power outlet
4. Battery Maintainer Device may NOT be used within the Class I, Division II Hazard area
5. Extend the Battery Maintainer DC cable and plug into the aircraft battery maintainer socket
6. **AFTER** the DC cable is in place, connect the Battery Maintainer to AC power
7. Verify that the Battery Maintainer automatic cycle has begun

Disconnecting

1. **DISCONNECT AC POWER** from the Battery Maintainer
2. Disconnect the Battery Maintainer DC cable from the aircraft

CAUTION: AC POWER MUST BE REMOVED FROM THE BATTERY MAINTAINER BEFORE CONNECTING OR DISCONNECTING THE DC CABLE TO THE AIRCRAFT!

A copy of this authorization must be posted in the hangar

Phoenix Deer Valley and Goodyear Airports

Battery Maintainer Specifications and Procedures

Phoenix Deer Valley and Goodyear Airport Management recognize that tenants may wish to use modern battery maintainer technology to optimize the life of their aircraft batteries while the batteries are installed in the aircraft. This will be permitted for those installations complying with these specifications and procedures.

Specifications

1. Battery Maintainers will be of the computer-controlled, fully automated type with the following minimum features:
 - a. Certified by a Nationally Recognized Testing Laboratory (NRTL), approved to list or certify UL standards 1236 & 1012
 - b. Zero voltage on DC terminals prior to battery connection (**no sparks**)
 - c. Reverse polarity protection
 - d. Rejection of shorted battery
 - e. Reject batteries that are below a minimum Open Circuit Voltage (OCV) of 22.5V/11.25V, indicating a possible defective battery
 - f. Fully automated operating cycle
 - g. No AC extension cords
 - h. Direct plug-in connection to aircraft – no alligator clips are permitted
2. Referenced devices:

Schauer Models JAC0512-DVPA, JAC0524-DVPA, includes Extended DC Cable (1-800-899-8658), Ext. 13
<http://battery-chargers.com/our-products/mobile-equipment-electronic-chargers/>

BatteryMINDER Models 128CEC1, 128CEC2, 244CEC1, 244CEC2 series plus Extended DC Cable (1-800-379-5579)
<http://www.batteryminders.com/aircraft-battery-chargers>
3. Aircraft Connection will be via a hard-wired, direct connection to the aircraft electrical system with the following features:
 - a. Polarized, insulated, shielded socket mounted in the aircraft, outside the Hazard Area
 - b. Mating, polarized plug on the Battery Maintainer DC cable
 - c. No “alligator” clips are permitted
 - d. No opening of the aircraft battery box is permitted during connection or operation, if the aircraft the aircraft is so equipped.
 - e. Installation of the connection system in the aircraft will be in accordance with FAA AC43-1B standards

- f. Referenced connection kit: Audio Authority Airframe Interface Kit, Model BM-AIK1 or equivalent: https://www.audioauthority.com/product_details/BM-AIK1

Phoenix Deer Valley and Goodyear Airports

Battery Maintainer Specifications and Procedures

This Procedure must be posted in the hangar near the AC power outlets

Operating Procedures

Connecting

1. Prior to connection to the aircraft, verify that the Battery Maintainer is **DISCONNECTED FROM AC POWER**
2. NO AC EXTENSION CORDS ARE PERMITTED
3. Locate the Battery Maintainer near the AC power outlet
4. Battery Maintainer Device may NOT be used within the Class I, Division II Hazard area
5. Extend the Battery Maintainer DC cable and plug into the aircraft maintainer socket
6. AFTER the DC cable is in place, connect the Battery Maintainer to AC power
7. Verify that the Battery Maintainer automatic cycle has begun

Disconnecting

1. **DISCONNECT AC POWER** from the Battery Maintainer
2. Disconnect the Battery Maintainer DC cable from the aircraft

CAUTION: AC POWER MUST BE REMOVED FROM THE BATTERY MAINTAINER BEFORE CONNECTING OR DISCONNECTING THE DC CABLE TO THE AIRCRAFT!